



**APPENDIX A**  
**MARKED-UP VERSION OF THE AMENDED CLAIMS**  
**U.S. PATENT APPLICATION SERIAL NO. 09/324,459**

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1. (amended) A multi-stage data logging system comprising:
  - a) a telecommunications ("telecom") stage receiving input from a plurality of [input] communication channels;
  - b) a recorder stage having one or more recorders, at least one recorder [storing] logging data associated with [input received from] information transmitted on at least one of said plurality of [input] communication channels;
  - c) a distribution stage providing access to data [stored] logged in the recorder stage;
  - d) a first interface linking the telecom and the recorder stages and a second interface linking the recorder and the distribution stages;wherein at least two stages of the system are physically separable and in operation can be located wide distances apart.
2. (amended) The data logging system of claim 1 wherein the telecom stage comprises:
  - a) a first interface capturing signals from said plurality of [input] communication channels;
  - b) one or more signal processors converting captured signals into formatted data[ having a predetermined format]; and
  - c) a second interface for transmitting said converted data to said recorder stage.
3. (amended) The data logging system of claim 2 wherein the telecom [stages] stage further comprises at least one of: analog to digital signal converter and means for monitoring digital telephones.
8. (amended) The data logging system of claim 1 wherein the recorder stage comprises a controller for directing and monitoring recorder stage operations, and each recorder comprises:
  - a) a first interface receiving data from the telecom stage;
  - b) a buffer for transitional data storage;
  - c) a [hard disk drive] random access storage device for data storage; and
  - d) a second interface for transmitting stored data to the distribution stage.
24. (amended) A multi-stage data logging system comprising:
  - a) a first means for receiving signals from one or more [input] communication channels;
  - b) a second means for [recording] logging data associated with received signals;
  - c) a third means for retrieving [stored] logged data and distributing retrieved data to one or more output channels;wherein at least two of said first, second, and third means are physically separable and can operate wide distances apart.
25. (amended) The data logging system of claim 24 further comprising an archive storage device for archiving data from said one or more [input] communication channels.

26. (amended) The data logging system of claim 24 wherein received signals from said one or more [input] communication channels [is] are voice signals, and the second means further comprises means for recording call information about the received voice signals.

27. (amended) A data logger, comprising:  
a telecommunication device receiving input from a plurality of [data sources] communication channels;  
a processor converting the received input [from said plurality of data sources] to one or more data formats;  
a memory for [storing converted data corresponding to the received input from said plurality of data sources] logging information about the received input, the information comprising data converted to at least one data format;  
a communication path to a communications network; and  
a server having access to the memory via the communications network for transferring [stored] logged data from one or more of said plurality of [data sources] communication channels via the [communication path] communications network to at least one remote user.

28. (amended) The data logger of claim 27 wherein the server is a Web server and the [communication path] communications network is the Internet.

29. (amended) A method for accessing information in at least one digital logger storing data associated with input from a plurality of [input] communication channels, comprising:  
at a Web server having access to said at least one digital logger over a communications network, receiving a request for retrieval of stored data from a [client] user;  
retrieving stored data in accordance with the received request; and  
transferring the retrieved data to the [client] user.

30. (amended) The method of claim 29 wherein the step of retrieving stored data comprises accessing a record of [an input] a communication channel made by said at least one digital logger.

31. (amended) The method of claim 30 wherein the step of retrieving stored data comprises accessing call information for a record of [an input] a communication channel made by said at least one digital logger.

32. (amended) The method of claim 30 wherein the step of retrieving stored data comprises providing direct access to a record of [an input] a communication channel stored in said at least one digital logger.

34. (amended) The method of claim 29 wherein the step of retrieving stored data comprises accessing archived data at the Web server corresponding to a record of [an input] a communication channel made by said at least one digital logger.

[32.] 35 (amended) A method for operating a multi-stage data logging system having: a telecom stage receiving input from a plurality of [input] channels; a recorder stage having two or more recorders, at least one recorder storing data associated with input received from the

plurality of [input] channels and at least one backup recorder; a distribution stage providing access to data stored in the recorder stage; and a first interface linking the telecom and said one or more recorders of the recorder stages and a second interface linking the recorder and the distribution stages; the method comprising:

- detecting a malfunctioning recorder in the recorder stage;
- automatically switching interface links from the detected malfunctioning recorder to said backup recorder to ensure uninterrupted operation of the system; and
- without disrupting the operation of the system replacing the detected malfunctioning recorder with a functioning recorder.

[33.] 36 (amended) A method for increasing the recording capacity of an operating multi-stage data logging system having: a telecom stage having telecom blocks capturing input from at most N input channels; a recorder stage having one or more recorders, said recorders having maximum recording capacity of M ( $M \leq N$ ) channels; a distribution stage providing access to data stored in the recorder stage; a first network-based or four-wire-based interface linking the telecom and the recorder stages; and a second interface linking the recorder and the distribution stages; the method comprising:

- (a) without disrupting the operation of the system attaching to said first interface at least one recorder so that the combined capacity of the recorders in the recorder stage is equal to or exceeds N channels.

[34.] 37 (amended) The method of claim [33] 36 further comprising:

- (b) without disrupting the operation of the system, attaching to said first interface at least one additional telecom block so that the system can capture  $P > N$  input channels; and
- (c) repeating step (a) until the combined capacity of the recorders in the recorder stage is equal to or exceeds P channels.